

CLAIMS

1. An optical signal receiver comprising:
 - an optical-receiving means for receiving an optical signal, the optical signal being intensity-modulated with high frequency electric signals;
 - a photoelectric-converting means for converting the optical signal received by the optical-receiving means to electric signals; and
 - 10 a frequency-converting means for converting the electric signals converted by the photoelectric converting means to lower frequencies.
2. The optical signal receiver as claimed in claim 1,
 - 15 wherein the high frequency electric signals are in a microwave frequency band or in a millimeter wave frequency band.
3. The optical signal receiver as claimed in claim 1 or
 - 20 2, wherein the high frequency electric signals are frequency-division multiplexed electric signals.
4. The optical signal receiver as claimed in claim 1,
 - 25 wherein the high frequency electric signals are RF signals of satellite broadcasting.

5. The optical signal receiver as claimed in claim 4, wherein the electric signals converted by the frequency-converting means are IF signals of the satellite broadcasting.

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6. The optical signal receiver as claimed in claim 5, wherein the RF signals are in a frequency range from about 11.7 GHz to 12.8 GHz.

10 7. The optical signal receiver as claimed in claim 6, wherein the IF signals are in a frequency range from about 1.0 GHz to 2.1 GHz.

15 8. The optical signal receiver as claimed in any one of claims 1-7, further comprising a transmission means for transmitting via a coaxial cable the electric signals converted to the lower frequencies by the frequency-converting means.

20 9. An optical signal transmitter comprising a modulation means for intensity-modulating an optical signal with RF signals of satellite broadcasting.

25 10. The optical signal transmitter as claimed in claim 9, wherein the RF signals are in a frequency range from about 11.7 GHz to 12.8 GHz.